Claims

1. An automatic drawing creation method of constructing a three-dimensional model by using a computer source having a processing device source, a memory source, an input device and an interface, in which

the processing device source executes a processing including; a step of extracting a designated drawing frame from a drawing frame data base that stores drawing frame data on every application uses, a step of projecting a three-dimensional model extracted from a three-dimensional model data base on the extracted drawing frame thereby creating a two-dimensional projection drawing, a step of extracting dimensional line elements in accordance with the shape of the two-dimensional projection drawing from a dimension data base that stores data concerning a plurality of dimensional line elements and deforming them in accordance with attribute values of a product, and a step of compounding the deformed dimension line elements and the two-dimensional projection drawing and outputting the two-dimensional projection drawing as a drawing, based on the operation program of the memory source.

2. The automatic drawing creation method according to claim 1, the method including a step of extracting designated

tolerance values and remarks from a design reference data base and describing them at designated positions on the two-dimensional projection drawing when the deformed dimension line elements and the two-dimensional projection drawing are compounded.

3. An automatic drawing creation system including an attribute value data base that stores data concerning the attribute values of a product, a three-dimensional model data base that stores three-dimensional model data of the product, a drawing frame data base that stores drawing frame data on every application uses, projection drawing creation means that extracts the designated drawing frame from the drawing frame data base, and projects the three-dimensional model extracted from the three dimensional model data base on the extracted drawing frame thereby creating a two-dimensional projection drawing, a dimension data base that stores data concerning a plurality of dimension line elements, compounding means that extracts the dimension line elements in accordance with the shape of the two-dimensional projection drawing from the dimension data base, deforms them in accordance with the attribute values of the product and compounds the deformed dimensional line elements and the two-dimensional projection drawing, and drawing output means that outputs the two-dimensional projection drawing compound by the compounding

means as a drawing.

4. The automatic drawing creation system according to claim 3, wherein

the system includes a design reference data base that stores data of tolerance values concerning each of the dimension line elements and remarks, and

the compounding means extracts designated tolerance values and remarks from the design reference data base and describes them at designated positions on the two-dimensional projection drawing when the deformed dimension line elements and the two-dimensional projection drawing are compounded.

5. An automatic drawing creation program containing a program for causing a computer to execute a processing attained with each of the means according to any one of claims 3 and 4.

6. A computer-readable memory medium that stores the automatic drawing creation program according to claim 5.